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## RAW SEQUENCE LISTING

DATE: 08/31/2004

PATENT APPLICATION: US/10/802,540

TIME: 12:32:26

Input Set : N:\Crff3\RULE60\10802540.raw

Output Set: N:\CRF4\08312004\J802540.raw

1 <110> APPLICANT: Pepinsky, Blake  
 2 Runkel, Laura  
 3 Brickelmaier, Margot  
 4 Whitty, Adrian  
 5 Hochman, Paula  
 6 <120> TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
 7 and Uses

8 <130> FILE REFERENCE: 00689-514/A065  
 9 <140> CURRENT APPLICATION NUMBER: US/10/802,540  
 10 <141> CURRENT FILING DATE: 2004-03-16

11 &lt;150&gt; PRIOR APPLICATION NUMBER: US/09/832,658

12 &lt;151&gt; PRIOR FILING DATE: 2001-04-11

13 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/US99/24201

14 &lt;151&gt; PRIOR FILING DATE: 1999-10-15

15 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/104,572

16 &lt;151&gt; PRIOR FILING DATE: 1998-10-16

17 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/120,161

18 &lt;151&gt; PRIOR FILING DATE: 1999-02-16

19 &lt;160&gt; NUMBER OF SEQ ID NOS: 40

20 &lt;170&gt; SOFTWARE: FastSEQ for Windows Version 4.0

22 &lt;210&gt; SEQ ID NO: 1

23 &lt;211&gt; LENGTH: 549

24 &lt;212&gt; TYPE: DNA

25 &lt;213&gt; ORGANISM: murine

26 &lt;400&gt; SEQUENCE: 1

27	tccggggggcc atcatcatca tcatcatagc tccggagacg atgatgacaa gatgagctac	60
28	aacttgcttg gattcctaca aagaagcagc aattttcagt gtcagaagct cctgtggcaa	120
29	ttgaatggga ggcttgaata ctgcctcaag gacaggatga actttgacat ccctgaggag	180
30	attaagcagc tgcagcagtt ccagaaggag gacgccgat tgaccatcta tgagatgctc	240
31	cagaacatct ttgctatttt cagacaagat tcatctagca ctggctggaa tgagactatt	300
32	gttgagaacc tcctggctaa tgtctatcat cagataaacc atctgaagac agtcctggaa	360
33	gaaaaaactgg agaaagaaga tttcaccagg ggaaaaactca tgagcagctc gcacctgaaa	420
34	agatattatg ggaggattct gcattacctg aaggccaagg agtacagtca ctgtgcctgg	480
35	accatagtca gagtggaaat cctaagggaac ttttacttca ttaacagact tacaggttac	540
36	ctccgaaac	549

38 &lt;210&gt; SEQ ID NO: 2

39 &lt;211&gt; LENGTH: 183

40 &lt;212&gt; TYPE: PRT

41 &lt;213&gt; ORGANISM: murine

42 &lt;400&gt; SEQUENCE: 2

43	Ser Gly Gly His His His His His Ser Ser Gly Asp Asp Asp Asp
44	1 5 10 15
45	Lys Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe

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46          20          25          30
47  Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys
48          35          40          45
49  Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu
50          50          55          60
51  Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu
52          65          70          75          80
53  Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
54          85          90          95
55  Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
56          100          105          110
57  Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe
58          115          120          125
59  Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
60          130          135          140
61  Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
62          145          150          155          160
63  Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg
64          165          170          175
65  Leu Thr Gly Tyr Leu Arg Asn
66          180
68 <210> SEQ ID NO: 3
69 <211> LENGTH: 60
70 <212> TYPE: DNA
71 <213> ORGANISM: human
72 <400> SEQUENCE: 3
73  ttctccggag acgatgatga caagatgagc tacaacttgc ttggattcct acaaagaagc      60
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 39
77 <212> TYPE: DNA
78 <213> ORGANISM: human
79 <400> SEQUENCE: 4
80  gccgctcgag ttatcagttt cggaggtaac ctgtaagtc      39
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 35
84 <212> TYPE: DNA
85 <213> ORGANISM: human
86 <400> SEQUENCE: 5
87  agcttccggg ggccatcatc atcatcatca tagct      35
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 35
91 <212> TYPE: DNA
92 <213> ORGANISM: human
93 <400> SEQUENCE: 6
94  ccggagctat gatgatgatg atgatggccc ccgga      35
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 87
98 <212> TYPE: DNA
99 <213> ORGANISM: human

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100 <400> SEQUENCE: 7
101      ccggagacga tgatgacaag atggcttacg ccgctcttgg agccctacaa gcttctagca      60
102      attttcagtg tcagaagctc ctgtggc      87
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 60
106 <212> TYPE: DNA
107 <213> ORGANISM: human
108 <400> SEQUENCE: 8
109      gatctagcaa tgctgcctgt gctgccctcc tggtgcctt gaatgggagg cttgaatact      60
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 52
113 <212> TYPE: DNA
114 <213> ORGANISM: human
115 <400> SEQUENCE: 9
116      gcctcaagga caggatgaac ttgacatcc ctgaggagat taagcagctg ca      52
118 <210> SEQ ID NO: 10
119 <211> LENGTH: 76
120 <212> TYPE: DNA
121 <213> ORGANISM: human
122 <400> SEQUENCE: 10
123      aattgaatgg gagggctgca gcttgcgctg cagacaggat gaactttgac atccctgagg      60
124      agattaagca gctgca      76
126 <210> SEQ ID NO: 11
127 <211> LENGTH: 76
128 <212> TYPE: DNA
129 <213> ORGANISM: human
130 <400> SEQUENCE: 11
131      aattgaatgg gaggcttgaa tactgcctca aggacagggc tgcatttgc t atccctgcag      60
132      agattaagca gctgca      76
134 <210> SEQ ID NO: 12
135 <211> LENGTH: 51
136 <212> TYPE: DNA
137 <213> ORGANISM: human
138 <400> SEQUENCE: 12
139      aattgaatgg gaggcttgaa tactgcctca aggacaggat gaactttgac a      51
141 <210> SEQ ID NO: 13
142 <211> LENGTH: 43
143 <212> TYPE: DNA
144 <213> ORGANISM: human
145 <400> SEQUENCE: 13
146      tcctgagga gattgctgca gctgcagctt tcgctgcagc tga      43
148 <210> SEQ ID NO: 14
149 <211> LENGTH: 78
150 <212> TYPE: DNA
151 <213> ORGANISM: human
152 <400> SEQUENCE: 14
153      cgccgcgttg accatctatg agatgctcgc taacatcgct agcattttca gacaagattc      60
154      atctagcact ggctggaa      78
156 <210> SEQ ID NO: 15

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157 <211> LENGTH: 78
158 <212> TYPE: DNA
159 <213> ORGANISM: human
160 <400> SEQUENCE: 15
161      cgccgcattg .accatctatg agatgctcca gaacatcttt gctattttcg ctgcagcttc      60
162      atctagcact ggctggaa                                         78
164 <210> SEQ ID NO: 16
165 <211> LENGTH: 72
166 <212> TYPE: DNA
167 <213> ORGANISM: human
168 <400> SEQUENCE: 16
169      ggaatgcttc aattgttgct gcactcctga gcaatgtcta tcatcagata aaccatctga      60
170      agacagttct ag                                         72
172 <210> SEQ ID NO: 17
173 <211> LENGTH: 72
174 <212> TYPE: DNA
175 <213> ORGANISM: human
176 <400> SEQUENCE: 17
177      ggaatgagac cattgttgag aacctcctgg ctaatgtcgc tcatcagata gcacatctgg      60
178      ctgcagttct ag                                         72
180 <210> SEQ ID NO: 18
181 <211> LENGTH: 44
182 <212> TYPE: DNA
183 <213> ORGANISM: human
184 <400> SEQUENCE: 18
185      ctagctgcaa aactggctgc agctgatttc accaggggaa aact      44
187 <210> SEQ ID NO: 19
188 <211> LENGTH: 69
189 <212> TYPE: DNA
190 <213> ORGANISM: human
191 <400> SEQUENCE: 19
192      ctagaagaaa aactggagaa agaagcagct accgctggaa aagcaatgag cgcgctgcac      60
193      ctgaaaaga                                         69
195 <210> SEQ ID NO: 20
196 <211> LENGTH: 51
197 <212> TYPE: DNA
198 <213> ORGANISM: human
199 <400> SEQUENCE: 20
200      tattatggga ggattctgca ttacctgaag gccaaaggagt actcacactg t      51
202 <210> SEQ ID NO: 21
203 <211> LENGTH: 76
204 <212> TYPE: DNA
205 <213> ORGANISM: human
206 <400> SEQUENCE: 21
207      catgagcagt ctgcacctga aaagatatta tgggggcaatt gctgcatacc tggcagccaa      60
208      ggagtactca cactgt                                         76
210 <210> SEQ ID NO: 22
211 <211> LENGTH: 87
212 <212> TYPE: DNA

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213 <213> ORGANISM: human
214 <400> SEQUENCE: 22
215      catgagcagt ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggccgc      60
216      tgcataactca cactgtgcct ggacgat                                         87
218 <210> SEQ ID NO: 23
219 <211> LENGTH: 87
220 <212> TYPE: DNA
221 <213> ORGANISM: human
222 <400> SEQUENCE: 23
223      catgagcagt ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggcaaa      60
224      ggagtagcgt gcatgtgcct ggacgat                                         87
226 <210> SEQ ID NO: 24
227 <211> LENGTH: 50
228 <212> TYPE: DNA
229 <213> ORGANISM: human
230 <400> SEQUENCE: 24
231      cgtcagagct gaaatcctag caaactttgc attcattgca agacttacag      50
233 <210> SEQ ID NO: 25
234 <211> LENGTH: 166
235 <212> TYPE: PRT
236 <213> ORGANISM: human
237 <400> SEQUENCE: 25
238      Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
239      1          5          10          15
240      Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
241      20          25          30
242      Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
243      35          40          45
244      Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
245      50          55          60
246      Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
247      65          70          75          80
248      Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
249      85          90          95
250      His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
251      100         105         110
252      Arg Gly Ala Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
253      115         120         125
254      Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
255      130         135         140
256      Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Arg Ile Asn Arg Leu
257      145         150         155         160
258      Thr Gly Tyr Leu Arg Asn
259      165
261 <210> SEQ ID NO: 26
262 <211> LENGTH: 166
263 <212> TYPE: PRT
264 <213> ORGANISM: human
265 <400> SEQUENCE: 26

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**VERIFICATION SUMMARY**

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